

Test Review DATA**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Kim, Tamara, Joan, and Lorna have been training for the 200-m sprint.
This table shows their practice times in seconds.

Runner	1st Practice	2nd Practice	3rd Practice	4th Practice
Kim	30.5 s	31.2 s	30.8 s	31.0 s
Tamara	30.4 s	30.8 s	30.5 s	30.4 s
Joan	30.2 s	30.4 s	30.7 s	30.9 s
Lorna	31.8 s	31.6 s	31.3 s	30.9 s

Which runner would you choose to compete in the 200-m race?

- a. Lorna b. Joan c. Kim d. Tamara
- _____ 2. Find the mean, median, and mode of these scores on a math test:
100, 95, 73, 76, 100, 93, 64, 70, 61, 75, 92, 61, 75, 64, 72, 100, 80, 82, 90, 78, 77, 83
- a. mean = 73.4; median = 77.5; mode = 80.5
b. mean = 73.4; median = 77.5; mode = 100
c. mean = 80; median = 80.5; mode = 100
d. mean = 80; median = 77.5; mode = 100
- _____ 3. Find the outlier in this set of data, and tell how it affects the mean.
37, 38, 23, 34, 21, 38, 48, 30
- a. 48; it lowers the mean by about 2.1.
b. 48; it raises the mean by about 2.1.
c. 21; it lowers the mean by about 1.8.
d. 21; it raises the mean by about 1.8.
- _____ 4. Find the mode and median of the data in this stem-and-leaf plot.

Stem	Leaf
5	3 4 8
6	0 3 5
7	1 4 6
8	2 5
9	7 7

- a. 63; 72.5 b. no mode; 71 c. 97; 71 d. no mode; 72.5

Short Answer

5. You want to know the average number of books a person in your community reads in a month. You plan to survey every third person leaving the library.
Is this a reliable sample? Explain.
6. You want to survey the students in your school about the new school colours. You select a sample to survey by placing the names of all students in your school into a large jar and drawing out 15 names.
Is this a reliable sample? Justify your answer and describe the population of this sample.

Problem

7. A football coach measured the mass, in kilograms, of each player in the squad.
Here are the results:
60, 72, 87, 88, 67, 67, 74, 77, 83, 80, 61, 64, 75, 75, 82, 82, 78, 64, 71, 67, 68, 88, 77, 75,
64, 62, 74, 81, 81, 65, 82, 85, 78, 67, 87, 74
 - a) Display the data using a stem-and-leaf plot.
 - b) Find the median and mode of the data.
 - c) Display the same data using a histogram.
 - d) What can you tell from the stem-and-leaf plot that you cannot tell from the histogram?